Response Surface Methodology with Minitab R15

COURSE CONTENT

Expand your knowledge of basic 2 level full and fractional factorial designs to those that are ideal for process optimization. Learn how to use Minitab's DOE interface to create response surface designs, analyze experimental results, and find optimal factor settings. Learn how to experiment in the real world by using techniques such as sequential experimentation that balance the discovery of critical process information while being sensitive to the resources required to obtain that information. Learn how to find factor settings that simultaneously optimize multiple responses.

WHO SHOULD ATTEND

Anyone using MINITAB to analyse or to present data can benefit from training. Whether you are a quality professional, an engineer, a scientist, a manager, an analyst, a consultant, or an instructor, you will gain knowledge and skills that allow you to become more productive and efficient in your statistical and Six Sigma analyses.

PRE-REQUISITES

Fundamentals of Minitab & Inferential Statistics with Minitab R15
Each delegate is required to bring along data for analysis

COURSE MATERIALS

Each participant will receive :
- Course Manual
- 30-day Trial MINITAB software (with real-live data tabulation)
- The use of 1 PC throughout the training

COURSE GOALS

Having an expert trainer work with you provides a competitive advantage. Our Six Sigma/MINITAB trainers teach you step-by-step how to use MINITAB with real-world examples. At the same time, the basic theory behind each statistical procedure is reviewed to help you correctly choose a method for analysis.

COURSE OUTLINE

- Understand the Central Composite Designs
- Know the calculations for Steepest Ascent,
- Comprehend Overlaid Contour Plots in Response Surface Methodology,
- Learn to interpret Pareto Charts, normal plots of effects, cube, main effects, and interaction plots in combination with tabulate statistical output and the response Optimizer.
- Find factor settings that optimise multiple response variables

COURSE DURATION

2 Days